

KENTUCKY TRANSPORTATION CABINET Department of Highways DIVISION OF HIGHWAY DESIGN

TC 61-505 Rev. 12/2012 Page 1 of 2

STORM SEWER DESIGN COMPUTABLE TABLE

COUNTY			ROUTE			PROJECT #			ITEM #						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Inlet/ MH (ID)	Station	Area, A	"C"	CA	Σ CA	T (min)	ΣT (min)	I (in/hr)	Q (cfs)	Pipe Length (LF)	Pipe Slope (ft/ft)	Pipe Size (in)	Mean Vel (fps)	Full Flow (cfs)	Cap (%)



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TC 61-505 Rev. 12/2012 Page 2 of 2

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INSTRUCTIONS

COL#	ITEM	DESCRIPTION					
1.	End of Pipe ID	Inlet, manhole or junction number of symbol					
2.	Station	Roadway station or end of pipe location					
3.	Drainage area, A	Contributing drainage area at inlet or manhole					
4.	Runoff coefficient, C	Representative runoff coefficient of drainage area					
5.	CA	Intermediate runoff calculation					
6.	ΣCA	Summation of CAs to this point					
7.	Pipe travel time, T	Pipe length (col. 11)/Mean Velocity (col. 14)					
8.	Total travel time	Travel time to inlet (col. 8) + pipe travel time (col. 7)					
9.	Rainfall intensity, I	Compute based on total travel time (col. 8)					
10.	Flow, Q	Rational discharge = CA (col. 6) x I (col. 9)					
11.	Pipe Length, L	Place pipe entries between inlets, manholes, or junctions					
12.	Pipe Slope, So	Slope of pipe in ft/ft					
13.	Pipe diameter, D	Determine from nomograph or other means (n=0.012)					
14.	Mean pipe velocity, V	Determine from nomograph or other means					
15.	Full pipe flow	Determine from nomograph or other means					
16.	Capacity (%)	Design capacity = Flow (col. 10)/Full pipe flow (col. 15); If design flow produces pressure flow, resize pipe.					